

PANSOPHIC CICS OPTION

PANVALET,
AT THE FINGERTIPS OF
TERMINAL USERS

CICS OPTION

Computer CRT terminals have come into wide use in every phase of data processing, and for good reason. They are fast, efficient and silent. To meet the growing needs of terminal users Pansophic has made PANVALET, the Program Management and Security System terminal-oriented. Options for TSO, CMS, and CICS users of PANVALET have been developed to combine the many benefits of PANVALET with the ease and efficiency of terminal use.

The CICS OPTION is a powerful tool to be used by a CICS terminal user to directly interface with an OS or DOS PANVALET library. It functions as inquiry system for data sets and directory information as well as an entry system for submitting batch update jobs to the operating system. In all, it offers the CICS terminal user the capabilities of PANVALET in a form designed for convenient terminal use.

For easy program maintenance from a terminal, a programmer can inquire through the CICS OPTION, into a PANVALET library for the exact status of a program, its modification level number, language or other vital information. He can also display the program or any portion of it. For example: if a program needs to be modified, the CICS OPTION will give complete information about a specific member so that the change can be made correctly the first time. The update can be built directly at the terminal and submitted to the system. Batch update is useful because it produces a hard copy audit trail of all update activity for programmer review.

The CICS OPTION can be used by management for inquiry to useful information. Since data can be stored on PANVALET, almost any information important to management can be stored and protected in the usual PANVALET manner. When needed, a simple inquiry retrieves the information immediately. Simple and inexpensive project control applications may be implemented in this manner.

Non-DP users of CICS terminals may also put the CICS OPTION to work. Terminal instructions can be placed on PANVALET and retrieved by the user. Then, whenever information is needed for keying in a particular user application transaction, an inquiry into PANVALET does the job.

For Operations, CICS OPTION may be used as an entry system. A DOS PROCLIB may be stored on the PANVALET library. Application job control can be stored on PANVALET and submitted when needed. In this way, the CICS OPTION can be used for job scheduling to eliminate all card handling in a shop; faster job turnaround results because the bottleneck of getting cards to and from the card reader has been eliminated.

In all, the CICS OPTION puts the advantages of PANVALET at the fingertips of the CICS terminal user. Applications of the system are virtually endless and the advantages are significant.

RESPONSE

Terminal response time is a matter of seconds. At optimum performance, response time is instantaneous.

CORE

CICS OPTION requires only 6K for the first user, 2½K for each additional on-line user (plus buffers).

JOB ENTRY

Batch jobs can be built at the terminal for subsequent submission into the computer system.

BUILDING INPUT FILE

Any user can build a job input stream over any period of time and submit as required. This eliminates the need to have all work completed at one terminal session.

TRANSACTION ORIENTED

CICS OPTION is designed to work best within a CICS environment. Because it is non-conversational, no CICS resources are tied up between transactions.

AUDIT TRAIL

Each batch update submitted can produce its own hard copy audit trail of library activity. This is important for the user who needs to review what changes he has made to his programs or data.

PAGE FORWARD

Any display can be paged forward through data set directory entries as well as data set statements. Any number of lines may be skipped, allowing the user to get directly to the portion of the member that needs work.

PAGE BACKWARDS

Same as page forward, except directory entries or statements that have already been displayed may be retrieved.

DATA ENTRY

Up to 21 lines of input can be entered at once as part of a single transaction.

CONTINUED SUPPORT

Pansophic will provide the same support and periodic enhancement to CICS OPTION that users have come to expect with PANVALET.

*****PANSOPHIC SYSTEMS INC. CICS OPTION * SYSTEM SERIAL NO. 99999*****	
THIS TEXT IS A SAMPLE	00001
DISPLAY OF A PANVALET MEMBER	00002
CALLED DATASET.	00003
	00004
THIS DISPLAY WILL INCLUDE UP TO	00005
22 LINES FOR THIS MEMBER.	00006
THE USER CAN CONTINUE THIS DISPLAY	00007
WITH THE NEXT DATA LINE OR	00008
DIRECTLY GO FORWARD OR BACKWARD	00009
TO ANY LINE IN THE MEMBER.	00010
	00011
AS A CONVENIENCE TO THE USER OF	00012
THE CICS OPTION THE TRANSACTION TO	00013
CONTINUE THIS DISPLAY IS FORMATTED	00014
AUTOMATICALLY. BY TYPING ONLY A SEQUENCE	00015
NUMBER, A NEW DISPLAY IS	00016
PRESENTED BEGINNING AT THAT SEQUENCE.	00017
THE Δ IN THIS DISPLAY IS THE CURSOR	00018
FOLLOWING THE CICS OPTION FORMATTED TRANSACTION.	00019
	00020
A NEW TRANSACTION CAN BE ENTERED SIMPLY BY	00021
REPOSITIONING THE CURSOR.	00022
PANV DSPLY DATASET L= Δ	

PROGRAMMING WITH PANVALET THROUGH THE CICS OPTION

A programmer has just been given the assignment of making a modification to an accounts receivable program. He knows that the entire job can be completed at one terminal session with the PANVALET/CICS OPTION.

Once signed on, the programmer displays the working program on his CRT. He determines the necessary program changes and builds a job containing the update. He may include steps in that job to test the change. When ready, the job is submitted to the operating system for execution. Hard copy output is returned to him in the same way as an ordinary batch job. Techniques are available to have the PANVALET print listed back on the terminal for programmer review. In this way he doesn't have to wait for the hard copy to be physically delivered to him. The terminal session is ended once the final update job is submitted; now the programmer is free to attend to the next task.

TECHNICAL ASPECTS OF THE CICS OPTION

The PANVALET CICS OPTION will operate on any IBM 360 or 370 series computer that has the DOS Entry, DOS Standard, DOS/VS, OS Standard or OS/VS CICS system installed. 3270 Mod 11 (1920 byte screen) CRT terminals must be in use. Any keyboard type is supported. Basic Mapping Support (BMS) is not required.

The CICS OPTION operates as a CICS task invoked by transaction codes. Assembler language is used throughout with standard IBM CICS macro definitions.

Quality Products
with
Quality Support

THE PANSOPHIC
RESPONSIBILITY

The Incredible Utilities

More than 300,000 data processing professionals around the world use one or more of these systems every day.

PANVALET The Program Management and Security System, for programming efficiency with a minimum of waste.

The Information Retrieval and File Management System: easy access to computer—stored information for rapid decision making.

EASYTRIEVE

PAN*SORT The Advanced Sort/Merge System, performing a necessary task with a minimum of overhead.

The Disk Analysis and Data Set Management System, for automatic management of DASD resources.

PAN*DA

PANSOPHIC

PANSOPHIC SYSTEMS INCORPORATED – 709 Enterprise Drive, Oak Brook, IL 60521 USA
PANSOPHIC SYSTEMS OF CANADA LTD – 6600 Transcanada Highway, Pointe Claire, Quebec H9R 4S2
PANSOPHIC SYSTEMS - EUROPE INC. – Princess House, Eastcastle Street, London, England W1N 7AP
PANSOPHIC SYSTEMS AUSTRALASIA PTY LTD – 133 Alexander St., Crows Nest N.S.W. 2065, Australia

Nov 75

CICS OPTION

The CICS Option is a powerful tool to be used by a CICS terminal user to directly interface with an OS or DOS Panvalet library. It functions as an inquiry system for data sets and directory information as well as a scheduling system for submitting batch updates to the operating system. In all, it offers the CICS terminal user the complete capabilities of Panvalet in a form designed for convenient terminal use.

The display mode of operation is used to display directory entries (individually, in groups, or the entire library directory) or data sets at the terminal. Subsets, subset directories and ++COMMENT information is available to the user upon request. For voluminous data a program function key allows the terminal user to page forward through data set statements or directory entries.

The input mode is used to spool a data set to the batch system for execution. A data set is built which will contain a job stream. An internal reader is activated when the input mode is ENDED or at the option of the terminal user, a specific program function key is depressed. For DOS, where there is no internal reader a job will be executed periodically by the operations center for this purpose.

In the input mode, the terminal user can retrieve data sets from the Panvalet library for inclusion in the input batch job stream. The user input submode is used to enter card image data to the batch job stream, such as control information or JCL. This gives the terminal user flexibility and complete control over the creation of the job stream.

The validation mode is used to perform extensive error checking of Panvalet control cards before being spooled to the batch job stream. For example, updates are checked for valid data set name and the correct level number for that data set. Also sequence numbers are verified for the change command.

Through the display mode and the input mode, complete interaction can be obtained between a CICS terminal user and a Panvalet library. The CICS OPTION can easily be made to serve as a tool for verifying changes made to Panvalet data sets, checking status and level numbers of data sets to be updated, building updates and for the task of your choice.


Panvalet
Systems
Incorporated

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NEW JERSEY 07102
(201) 622-0160

PANVALET

The Program Management and Security System

LICENSE FEE SCHEDULE (Effective August 1, 1975)

	LICENSE FEE	YEARLY MAINTENANCE
PANVALET DOS (per site)	\$4,980.00 — Perpetual License	\$600.00
PANVALET OS (per site)	\$5,580.00 — Perpetual License	\$600.00
PANVALET CMS	\$5,580.00 — Perpetual License	\$600.00
Time Sharing Option	\$3,000.00 — Perpetual License	\$600.00
CMS Option	\$1,800.00 — Perpetual License	\$600.00
CICS Option	\$1,800.00 — Perpetual License	\$360.00

MAINTENANCE WARRANTY

The PANVALET license provides for full maintenance of PANVALET in an operable condition for one year without additional charge. All enhancements and improvements to PANVALET are available for distribution to PANVALET users for one year without additional charge. Two sets of manuals are provided.

Continuation of full maintenance support and availability of enhancements and improvements to PANVALET is optional after one year; continued maintenance is available thereafter at the rate stated in the current yearly maintenance fee schedule.

TRAINING SCHEDULE

PANVALET (DOS, OS & CMS)	One half day included with license
Time Sharing Option	Not Required
CMS Option	Not Required
CICS Option	Not Required

Additional Training available at \$500.00 per day (one day minimum).

SCHEDULE OF TERMS

License fees and maintenance fees payable in advance — net due on invoice. The above prices are per installation site without restriction as to the number of computers installed at that site. For multiple operating systems, *at the same site*, the second and each additional system will be licensed for \$600.00 per year, plus \$50.00 handling charge. Full maintenance fees apply to each additional system, to be paid at time of first system installed maintenance due date. Remote site usage is available with the payment of one year's maintenance fee per site at the time of initial use, and each subsequent year. Installation of PANVALET is restricted to the licensed site. For additional licensed sites, see Discount Schedule.

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2nd through 5th installation	10% discount (per site)
6th and subsequent installations	25% discount (per site)
Multi-site license	See below

MULTI-SITE LICENSE TERMS

Any firm or organization that wants to use PANVALET at a specified number of installations may do so for a single fee, available upon request. Maintenance will be provided at one location only; however, maintenance is available on a per-site basis at the rates stated in the current yearly maintenance fee schedule.

Pansophic Systems, Incorporated

Oak Brook, Illinois 60521

East (201) 622-0190

Central (312) 325-8212

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Canadian (514) 695-0925

United States and Canada Only
Printed in U.S.A.

Prices Subject to Change

THE PANVALET FAMILY OF PRODUCTS

For years, PANVALET has been known throughout the world as an easy-to-use, dependable tool for complete program management and maintenance and as THE protector of source programs. Many large shops have built their entire systems around PANVALET.

Pansophic never stops improving PANVALET. Through user suggestions, the system has grown through eight versions, to where today, more and more users can solve an ever-expanding number of application problems.

All the PANVALET products and features are summarized here to provide you with a thorough idea of the PANVALET family of software from Pansophic Systems Incorporated.

— OS/DOS PANVALET

The original program management and security system that has been with us for years. It is used for batch updating, retrieval and maintenance of the master Panvalet library and the secondary protection files.

— CMS PANVALET

A new product that gives the VM-370/CMS users all the management capabilities and security safeguards inherent with Panvalet. This is the right system for the shop that would do all its file maintenance and retrieval under CMS.

— PANVALET II

A compact Panvalet system for the low-end DOS user who wishes to take advantage of the basic Panvalet functions at a reduced cost.

— OS/DOS PAM

A read-only system which allows an OS/DOS Panvalet user access to a Panvalet library for the purpose of retrieving data sets or directory entries from a user program.

— CICS PAM

A read-only system like the OS/DOS PAM, but for the CICS user. CICS PAM conforms with all CICS standards and is QUASI-REENTRANT.

— TSO OPTION

An interface to OS PANVALET to simplify access to a Panvalet library through TSO. A set of commands are supplied so that the problems of interfacing batch and conversational systems becomes transparent to the user. In essence, the result is the best of both worlds.

— CMS OPTION

Written for the CMS user who, like the TSO user, wishes to interface with an OS/DOS Panvalet library. Again, all interfacing problems are resolved by the system, letting the user become more productive. This system will allow conventional batch OS/DOS Panvalet library access in conjunction with the CMS conversational access.

— CICS OPTION

This system allows the CICS terminal user the ability to retrieve from a Panvalet library, obtain directory information and submit updates to Panvalet which are performed in a batch mode. This OS/DOS Panvalet interface performs intensive syntax checking and other monitoring functions over each terminal. Now Panvalet can become an integral part of the problem solving of CICS terminal users. Available February, 1975.



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PANSOPHIC

November 4, 1975

Mr. J. Nelson
System Cons.
Box 3
Schooleys Mnt., NJ 07870

Dear Mr. Nelson,

Enclosed is the information you requested on Panvalet and CICS Option.

I tried to contact you by phone but, unfortunately, I was unable to acquire your phone number.

If you would like to discuss our products or need further assistance, please don't hesitate to call me.

Sincerely yours,

Mando Reyes/jz

Mando Reyes
Account Representative

MR/jmz
Enclosures

PANVALET *The Program Management and Security System*

is designed for the

****CENTRAL STORAGE**

****TOTAL SECURITY**

****FAST RETRIEVAL**

****HISTORICAL DOCUMENTATION**

****EASY MAINTENANCE**

****MANAGEMENT PROJECT CONTROL**

****PROGRAM CONTROL**

****BACK UP PROTECTION**

of all

IBM and non-IBM Source Programs, Object Programs, JCL & Data Files

PANVALET is a total system that serves both programmers and programming Management. Because of its dual function, the PANVALET system is divided into two separate parts, giving both programmers and Management the ability to perform their functions and exercise their particular responsibilities and authorities. The many unique features of the PANVALET programs permit any data processing department complete operational flexibility and will not force the user to develop ways and procedures unacceptable to him.

PANVALET is designed to use the speed and power of all direct access storage devices (2311, 2314, 2321 and 3330). Unique and efficient compression techniques assure maximum utilization of the direct access storage device (one million cards can be stored on a single 2314 disk). Dynamic track allocation techniques eliminate the need to reorganize or compress the pack. PANVALET operates interchangeably in OS and DOS on any IBM 360 Model 22 and larger and on IBM 370 model 135 or larger. In OS, PANVALET can be executed concurrently in any partition or region and in DOS it is self-relocatable and will run in any batched partition. PANVALET supports shared DASD in both OS and DOS.

Once installed, PANVALET will:

- | | |
|-------------------------------------|---|
| † Eliminate card handling problems | † Prevent program tampering |
| † Systemize programmer's activities | † Protect production programs |
| † Increase CPU throughput | † Match merge all back-up files |
| † Document all library changes | † Create complete back-up |
| † Eliminate clerical tasks | † Protect against DASD errors |
| † Foster modular programming | † Interface with other software |
| † Provide vital library statistics | † Compress for efficient teleprocessing |

*A 360/370 Proprietary Software System developed,
marketed, installed and maintained by*



Pansophic Systems, Incorporated

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Multi-site license	See below

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PANVALET USER REFERENCE LIST

EASTERN ZONE

Connecticut	Blue Cross of Connecticut Warnaco	North Haven Bridgeport	Bill Ifkovic Richard Acey	203/239-4911 203/333-1511	OS/DOS OS
Kentucky	Brown & Williamson Tobacco Corp. Standard Oil of Kentucky Blue Cross/Blue Shield of Kentucky	Louisville Louisville Louisville	Neal Crump Bob Ilgen Tom Carr	502/774-7249 502/589-7530 502/452-1511	OS OS OS
New York	North American Phillips Continental Can Co. Ford Foundation Handy & Harman Lever Brothers Texaco Chemical Bank Swiss American Securities Bulova Watch Manufacturers & Traders Trust N.Y. State Electric & Gas	New York New York New York New York New York New York New York New York Flushing Buffalo Ithaca	Ken Pinkus A. Kraljic Norman James Kevin Malone Chris Kenney Robert Lugones Hugo Yopez Jack Clare Ron Baker Dale Rievert Dick Page	212/697-3600 212/551-7000 212/573-5000 212/752-3400 212/688-6000 212-953-6000 212/952-3662 212/825-9400 212/335-6000 716/626-3126 607/347-4131	DOS OS DOS DOS OS OS OS PV II DOS OS OS
Florida	Jack Eckerd Exchange National Bank	Clearwater Tampa	Tom Thomas Doug Ewen	813/531-8911 813/224-5644	DOS DOS
Georgia	State of Georgia Department of Administration Computer Management	Atlanta Atlanta	Bill Delmar Frank Howard	404/656-4038 404/455-6444	OS/DOS DOS
Massachusetts	Boston Safe Deposit & Trust Lahey Clinic	Boston Boston	Bob Pemberton Jeff Livermore	617/722-7583 617/262-4900	OS OS
Maryland	Mercantile Safe Deposit and Trust Company	Baltimore	Ed Boudris	301/789-7370	OS
New Jersey	RCA Duro Test International Paper	Cherry Hill N. Bergen Denville	Sal Asad Bob Peremes Bob Kulinski	609/779-6543 201/867-7000 201/625-4600	OS PV II OS
Pennsylvania	Philadelphia National Bank Girard Bank	Philadelphia Philadelphia	Joe Connelly Hank Harrison	215/629-4586 215/585-2992	OS OS
Tennessee	City of Chattanooga Provident Life and Accident Insurance Company Standard-Coosa Thatcher University of Tennessee Maremont Corporation	Chattanooga Chattanooga Chattanooga Knoxville Nashville	Howard Lewis John Germann Moses Guerrini John Jarrard Pierce Baldwin	615/757-5086 615/755-7777 615/622-3131 615/974-4321 615/244-8922	DOS OS DOS OS/DOS DOS
Virginia	Datatel	Alexandria	Paul Hawkins	703/549-4300	PV II
Delaware	Hercules, Inc.	Wilmington	Joe Dickinson	302/575-5504	OS

USERS OF PANVALET OPTIONS

RCA	Cherry Hill, N.J.	Sal Asad	609/779-6543	PV/CMS
City of Chattanooga	Chattanooga, TN	Howard Lewis	615/757-5086	CICS
Standard-Coosa Thatcher	Chattanooga, TN	Moses Guerrini	615/622-3131	CICS
Chemical Bank	New York, NY	Hugo Yopez	212/952-3662	TSO
Lahey Clinic	Boston, MA	Jeff Livermore	617/262-4900	CICS
Texaco	New York, NY	Robert Lugones	212/953-6000	TSO
Lever Brothers	New York, NY	Chris Kenney	212/688-6000	TSO
Manufacturers & Traders Trust	Buffalo, NY	Dale Rievert	716/626-3126	CMS
Mercantile Safe Deposit and Trust Company	Baltimore, MD	Ed Boudris	301/789-7370	CICS
Girard Bank	Philadelphia, PA	Hank Harrison	215/585-2992	TSO

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PANVALET The Program Management and Security System

USER REFERENCE LIST

Southeastern United States

Birmingham, Alabama	Birmingham Trust National Bank	Archie Hand	(205) 325-8551
	Liberty National Life Ins. Company	John Lovin, Jr.	(205) 328-0171
Montgomery, Alabama	Durr-Fillauer Medical, Inc.	John W. Durr III	(205) 265-0511
	Hudson-Thompson, Inc.	Jerry Chafin	(205) 288-6250
Fort Myers, Florida	First National Bank of Fort Myers	John Gibbs	(813) 332-1970
Jacksonville, Florida	Atlantic National Bank of Jacksonville	Larry Woods	(904) 791-5151
	Independent Life & Accident Insurance Company	Art Sterritt	(904) 354-1711
St. Petersburg, Florida	Florida Power Corporation	Don Higgins	(813) 866-5151
Tampa, Florida	The First National Bank of Tampa	Don Martinez	(813) 223-0580
	University of South Florida	Fred Brizard	(813) 974-2930
	GTE Data Services, Incorporated	Cliff Hall	(813) 877-8021
Atlanta, Georgia	The First National Bank of Atlanta	David Turner	(404) 588-6110
Ashland, Kentucky	Ashland Oil, Inc.	Ken Leidner	(606) 329-4100
Louisville, Kentucky	Capital Holding Corporation	Carlile Crutcher	(502) 584-8157
	Brown & Williamson Tobacco Company	Selden H. Harris	(502) 774-7011
Baltimore, Maryland	Mercantile Safe Deposit & Trust Company	Ed Boudris	(301) 237-5482
Towson, Maryland	Black & Decker Mfg. Company	Bob McKain	(301) 828-3900
Jackson, Mississippi	Deposit Guaranty National Bank	James Boatner	(601) 982-0345
Research Triangle Pk., North Carolina	Beaunit Corporation	Ed Johnson	(919) 549-8211
Chattanooga, Tennessee	American National Bank & Trust Company	D. Harkleroad	(615) 755-5255
	Hamilton National Bank	Chuck Killian	(615) 265-3581
	Provident Life & Accident Insurance Company	John Germann	(615) 755-1011
Nashville, Tennessee	NLT Computer Services Corp.	S. Wayne Elder	(615) 747-9544
	First American National Bank	Charles Waterston	(615) 747-3158
	Third National Bank of Nashville	Everett Davis	(615) 747-0557
	Metropolitan Government of Nashville & Davidson County	David Johnson	(615) 747-4504
Washington, D. C.	Allegheny Airlines Incorporated	Ron Hiles	(202) 347-9660
Annandale, Virginia	Northern Virginia Bank	Earl Stokes	(703) 451-9000
Arlington, Virginia	American Management Systems	Bob Lindsay	(703) 522-3211
Parkersburg, W. Va.	Borg-Warner Chemical	John Brown	(304) 485-1771

A Partial List of Other PANVALET Users

Data Service Corp. (Tenn.)	First National Bank of Maryland	N.A.C. Credit Corporation
Blue Cross—Blue Shield of Alabama	General Motors Corporation	Prudential Insurance Co. of America
Blue Cross—Blue Shield of Tennessee	Life & Casualty Insurance Co. of Tenn.	U.S. Federal Government
Hughes Computer Systems, Inc.	Maremont Corporation	Wheeling-Pittsburgh Steel Co.
Equitable Trust Company		



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AVERAGE PANVALET STORAGE CAPACITY

TABLE 1 reflects storage requirements by number of cards and device type. In the left hand column find the number of cards to be stored. Under the storage device headings at the top of the chart, read the number of tracks required to store these cards on PANVALET.

NUMBER OF CARDS TO BE STORED	CONVENTIONAL CARD STORAGE REQUIREMENTS			STORAGE REQUIREMENT BY DEVICE TYPE UTILIZING PANVALET									
	NUMBER OF 2,000 CARD BOXES	NUMBER of DRAWERS	NUMBER OF 20 DRAWER CABINETS	2311		2314		3330		3340-35		3340-70	
				Trks	Pks	Trks	Pks	Trks	Pks	Trks	Pks	Trks	Pks
50,000	28	20	1	345	1	172	1	95	1	150	1	150	1
100,000	56	40	2	690	1	344	1	190	1	300	1	300	1
200,000	112	80	4	1,380	1	688	1	380	1	600	1	600	1
300,000	167	120	6	2,070	2	1,032	1	570	1	900	1	900	1
400,000	223	160	8	2,760	2	1,376	1	760	1	1,200	1	1,200	1
500,000	278	200	10	3,450	2	1,720	1	950	1	1,500	1	1,500	1
750,000	417	300	15	5,173	3	2,576	1	1,430	1	2,247	1	2,247	1
1,000,000	556	400	20	6,896	4	3,432	1	1,910	1	2,994	1	2,994	1
1,250,000	695	500	25	8,621	5	4,288	2	2,390	1	3,741	1	3,741	1
1,500,000	834	600	30	10,345	6	5,144	2	2,870	1	4,488	2	4,488	1

TABLE 2 reflects storage requirements by size and number of programs. In the left hand column, find the number of programs to be stored. Under the storage device heading at the top of the chart, locate the average number of cards per program to be stored. From the chart, read the number of tracks required to store these programs on PANVALET.

NUMBER OF PROGRAMS	2311 DISK				2314 DISK				3330 DISK				3340 DISK			
	AVERAGE NUMBER OF CARDS PER PROGRAM				AVERAGE NUMBER OF CARDS PER PROGRAM				AVERAGE NUMBER OF CARDS PER PROGRAM				AVERAGE NUMBER OF CARDS PER PROGRAM			
	200	400	600	800	200	400	600	800	200	400	600	800	200	400	600	800
200	400	600	1,000	1,200	200	300	500	600	100	200	250	350	134	267	400	534
300	600	900	1,500	1,800	300	450	750	900	150	300	375	525	201	401	600	801
400	800	1,200	2,000	2,400	400	600	1,000	1,200	200	400	500	700	268	535	800	1,068
500	1,000	1,500	2,500	3,000	500	750	1,250	1,500	250	500	625	875	335	669	1,000	1,335
750	1,500	2,250	3,750	4,500	750	1,125	1,925	2,250	375	750	938	1,313	503	1,003	1,500	2,003
1,000	2,000	3,000	5,000	6,000	1,000	1,500	2,500	3,000	500	1,000	1,251	1,751	671	1,337	2,000	2,671
1,500	3,000	4,500	7,500	9,000	1,500	2,250	3,750	4,500	750	1,500	1,876	2,626	1,006	2,006	3,000	4,006

A SINGLE LIBRARY MAY CONSIST OF UP TO 65,536 BLOCKS

(or Tracks if Full Track Blocking)

1. 2311 *33 packs - full track blocking (2,000 tracks per pack)
*17 packs - 1/2 track blocking
2. 2314 *17 packs - full track blocking (4,000 tracks per pack)
9 packs - 1/2 track blocking
3. 3330 9 packs - full track blocking (7,676 tracks per pack)
5 packs - 1/2 track blocking
3 packs - 1/4 track blocking
4. 3330 Mod 11 5 packs - full track blocking (15,352 tracks per pack)
3 packs - 1/2 track blocking
1+ packs - 1/4 track blocking
5. 3340 Mod 35 16 packs - full track blocking (4,176 tracks per pack)
8 packs - 1/2 track blocking
6. 3340 Mod 70 8 packs - full track blocking (4,176 tracks per pack)
4 packs - 1/2 track blocking

*Limitation of 16 extents set by DOS/OS

The above charts are based on these values:

Number of bytes per card stored - 25 bytes

Average number of cards per 2,000 card box - 1,800

Average number of cards per drawer - 2,500 cards

Calculations include control information and overhead that may result. Because of this, a linear correspondence between number of programs and size of programs is not possible.

PANVALET
THE PROGRAM
MANAGEMENT
AND SECURITY
SYSTEM



PANSOPHIC SYSTEMS, INC.

PANVALET The Direct Access Library System

USERS' COMMENTS

1. CREDIBILITY AND RELIABILITY

- "PANVALET is the first software package purchased by us and has been found to be a superb package."
- "We are now able to store and retrieve program source code with complete confidence as to accuracy."
- "During the past two years, we have used PANVALET each day and have experienced no problems."

2. ELIMINATION OF CARDS

- "We have eliminated the need for many source deck filing cabinets and the floor space that they required."
- "PANVALET eliminates the problems that can be created by card handling."
- "PANVALET is going to be of further value for source program storage and maintenance when our key-disk system replaces our key-punches. There will be little need for any source card data."
- "Our machine room supervisor appreciates the reduction in the card volume that we had been processing for program compiles."

3. DISK SPACE SAVINGS

- "PANVALET has reduced our program library storage by roughly 60% of the previous DASD space required."
- "Using half-track blocking, we have over 1000 card decks and over 500,000 records on 1/2 of a 2314 pack."
- "We have 734 programs with 464,000 statements which utilize 50% of the available space."

4. SECURITY, PROTECTION, BACK-UP AND CONTROL

- "PANVALET has allowed us to secure back-up on all source programs on a frequent basis and eliminate our previous questionable and time consuming back-up procedures."
- "PANVALET has given me personal supervision over changes, as well as the total library, and permits a control/audit function that could never be realized under our old card system."
- "Directory listings are excellent management tools."
- "As manager of the Data Processing Department, I now feel that I have good control of the status of our programs."
- "We have been able to consolidate a number of separate source deck libraries into one central library."

5. EFFICIENCY

- "PANVALET has never had to be reorganized."
- "The execution time for a single program maintenance is an excellent improvement over previous card handling procedures."
- "PANVALET has reduced our turn-around and run time for compiles."
- "Reduction of I/O time and the general efficiency of PANVALET have produced a noticeable increase in through-put for program updates."
- "Its efficient disk space utilization, variety of data storage formats, no library condense, and selective tape dump and restore features are particularly beneficial."
- "We are especially pleased with the part played by PANVALET software in our recent conversion from DOS to OS."

6. EASE OF USE

- "PANVALET is well documented and easy to use."
- "The system was installed quickly and with no effort."
- "Our programmers learned the use of this powerful, yet uncomplicated system in a matter of a few minutes."

7. SUPPORT

- "Employees of Pansophic Systems have always been receptive to our inquiries and suggestions regarding the PANVALET system, and our dealings with them have been very pleasant."
- "There have been no malfunctions within the programming package so no continuing support from Pansophic Systems has been required."

8. OPINIONS

- "I have only good things to say about PANVALET and recommend it highly."
- "I feel the leasing of PANVALET was the best step this installation has taken toward maintaining an accurate and up-to-date program library."
- "PANVALET has proven to be all that you claimed it was, and more."
- "I wish all software that we have purchased would perform as PANVALET has."
- "This system is easily the most valuable software system, for the money, that I have dealt with to date."

PANVALET is all the above and more. We extend to you this offer, try PANVALET free in your own environment. See if it won't easily justify its continued use.



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PANVALET

VERSION 9 SUMMARY

HIGHLIGHTS

PANVALET Version 9 is a major release with many new features and new concepts.

PAN#1 offers new commands for increased programmer flexibility. Among these are a Delete command and a scan/replace facility that works in conjunction with a standard update. Also, user sequence numbers are now easier to use with the new Resequencing command.

Overall, PAN#1 refinements have added increased usability to already existing features. The statement change level stamp for COBOL has been expanded to include PL1, FORTRAN, and ASSEMBLER. UPDATE ALL operations can optionally suppress the level check for easier member replacement.

The new Extended Feature Facility (EFF) expands upon and completely replaces the Version 8 exit handler. EFF gives the user a new dimension in adding tailored features to PANVALET. Many features are supplied that can be optionally included in the system, and the user is given the ability to design his own features. Two modes of operation give EFF the ability to provide a feature either under programmer or management control.

In OS, a PDS Processing Facility is new. A complete interface capability now exists that links PANVALET with any card image PDS. Input and output are both fully supported.

Also in OS, the Execute Processor allows PANVALET users greater control over an application. This control is also teamed up with greater user convenience and flexibility. The user can, from PANVALET, transfer control to another program without incurring additional OS overhead. This is especially useful for common updates/compiles or update/link edits or the like. Also available is an update, compile and store of the object deck back into PANVALET, and all this in just one step.

The PANVALET Group Processor (PGP) is an extended feature that will generate PANVALET commands so that the user can perform functions on groups of members as well as individual members. Groups can be defined in the same versatile way that directory reports are produced. For example, all BAL programs can be copied, renamed, or updated with just two user written commands. Or all programs maintained before any date can be written to the print file. Or any of a thousand other tasks.

In conjunction with PGP, the PANVALET Generic Naming Ability allows access to all programs with specific prefixes, suffixes, or any meaningful combination of characters in a name. For example, one can access all programs with a "T" in position 5 of the name. Or all PL1 programs that have an "M" in position 2, "T" in position 4, and an "R" in position 6 of the name. This is extremely useful for establishing and maintaining standardized program naming conventions.

In DOS, the Console Input extended feature allows use of a SYSLOG device for interfacing with a PANVALET library. This can be especially useful in the establishing of a job control library where jobs can be directly initiated out of PANVALET, without any cards. This is very much like an internal reader capability for both POWER and non-POWER users.

SPECIFICS

REPLACEMENT UPDATE

To supplement the powerful scan/replace facility in PAN#8, PANVALET Version 9 has a replacement update feature for programmer use. It combines the usefulness of a scan/replace with the control and convenience of the PANVALET columnar update.

STATEMENT CHANGE LEVEL STAMP

Version 9 will stamp in a COBOL, BAL, PL1, or FORTRAN source statement, the modification level at which the statement was updated. This information is available on the compiler listing to provide an excellent statement change audit trail.

EXECUTE PROCESSOR

The ability to transfer control (XCTL) from PANVALET to any other program is now available. An update, compile, link, and go can be performed in one step eliminating much OS overhead. This is also valuable in interfacing PANVALET with production programs (i.e., maintaining volatile tables and control cards on PANVALET).

STATEMENT DELETION

Version 9 offers a new command for statement deletion. Used with the UPDATE command, it offers unsurpassed ease-of-use.

AUTOMATIC VERSION NUMBER GENERATION

In Version 9, PANVALET will automatically keep multiple versions of identically named programs on all protection files. A user specified number of versions (up to 9999) will be kept with the oldest being dropped after the threshold is reached. This obviates the need for a VERSION=parameter in PAN#2 as in version 8.

PDS OUTPUT (OS Only)

PANVALET can directly interface with an OS partitioned data set in writing new members. PDS's can be created, modified, and even maintained on PANVALET.

PDS INPUT (OS Only)

PANVALET will accept input directly from a PDS. Conversions to PANVALET are made especially easy, even if it is just for a few PDS members from several libraries. This is also useful in the maintenance of SYS1.PROCLIB and other system data sets.

DATA SET RESEQUENCING

The new RESEQ command allows for the generation of user sequence numbers in any existing data set. Although this does not affect standard PANVALET sequence numbers, it does provide a new level of sequencing for greater user convenience.

DATA SET TYPE/FORMAT MODIFICATION

The internal format of all PANVALET data sets is governed by its format or type. Now the user can change the format at will to correct ADD errors and other situations where the format needs change.

UPDATE . . . All Level Check Suppression

A generation option allows a bypass of level checking for UPDATE . . . ALL commands only. Specifying a zero (0) level number suppresses level checking. This is useful in making routine, mass updates or in preparing canned job control.

PAN#2 DIRECTORY REPORTING

The Library Status and Activity Report now provides the percent available for data blocks and data sets. On selective directory lists, the percentages of selected statements, blocks, and data sets are also printed.

LEVEL CHANGE MESSAGE

After any update of a data set, the new modification level number, number of statements, average compressed bytes, and number of library blocks are printed.

SYSTEM GENERATION

Version 9 allows for a system generation process in which many options are available. Some are:

- a) Optional extended COBOL compression.
- b) Three different formats for the date on all headings.
- c) Maximum number of versions on a protection file.
- d) Printing of unit record statistics at end of job.
- e) Installation security code.
- f) UPDATE . . . ALL level check suppression option.
- g) Optional listing of deleted statements.
- h) COBOL, PL1, BAL, and FORTRAN statement change level stamp.
- i) Up to 6 levels of nested INCLUDE statements.
- j) Alternate file names and, in DOS, alternate logical units.

USER FORMATS

Two user formats are available. The user specifies the exact formatting and sequencing requirements to conform to his needs. Now miscellaneous source coding can be stored on PANVALET and be directly identified. All directory reports will support the user formats.

ADVANCED TECHNIQUES

Version 9 has available for users, a manual that describes many advanced techniques that are very useful, but not always obvious. One example is in the creation of a new member from portions of many members in one step.

PAM'S PROTECTION FEATURE (DOS Only)

A protection feature has been added to the PAM's to assure library integrity. This feature assures that only one PANVALET program is accessing a PANVALET library at one time.

PANDD2 DATA SET CHECK (OS Only)

For PAN# 2, the PANDD2 file will be checked to verify that it is a new data set as specified in the JCL. This eliminates the problem of trying to do a direct transfer to another PANVALET library which will destroy the receiving library.

DOS LIBRARY NAME

DOS users will have the PANVALET library name (FILE ID) appear at the top of each page as well as on the headings from the DUMP and DELETE runs. The FILENAMES selected at system generation will also appear.

DOS CCWEXIT

The DOS CCWEXIT now supports the PAN#1 WORK file on other than cylinder boundaries.

Librarian Software.

Nov 75

PANVAL

THE PROGRAM
MANAGEMENT
AND SECURITY
SYSTEM



**PANSOPHC
SYSTEMS, INC.**

THE PANSOPHIC RESPONSIBILITY



Utility software from Pansophic Systems, Incorporated is composed of three elements: the physical system itself, comprehensive documentation on every component of the system, and bend-over-backwards technical support.

Pansophic's fame has spread rapidly from the day PANVALET, our Program Management and Security System was launched, for trouble-free software was a phenomenon in 1970. The company grew tremendously, utilizing only user references for advertising, and in 1973, acquired marketing rights to EASYTRIEVE, the Information Retrieval and File Management System. Pansophic developed applications for using the system that exceeded the authors' original system intentions, but not the system capability; those applications were sent to our users without charge. In early 1974, Pansophic released a company-authored Disk Analysis and Data Set Management System called PAN*DA, a tool that is rapidly becoming an industry standard.

Every product, every interface to every product and every set of user exits and options written for every product is fully documented. Every user gets that documentation automatically as part of his annual maintenance agreement with Pansophic at no additional charge. Every product is continually under revision with new versions released every 6 to 12 months, each one adding new features according to user suggestions.

If there is ever a problem with a Pansophic product, whether a user feels it is our fault or his, help is as near as the phone. A team of experts that often includes the system authors is always on call to answer any question about any product. Our systems must do what we say they will, for the success of a software company is built on trust. And it is only through fulfilled promises and immediate, correct answers to questions that your trust will be maintained. That is the Pansophic responsibility.

PANVALET

The Program Management and Security System

There are two ways to boost Data Processing productivity in an increasingly cost-conscious economy: increase output or cut overhead. PANVALET is the software way to do both through the centralized storage of data in a compressed format, easy program maintenance and card-image data retrieval, positive data security and management reports of library activity. PANVALET was the first direct access library system in the world and, since its creation, has been enhanced to where today, more than 300,000 computer industry personnel are familiar with its use.

PROGRAMMERS utilize PANVALET extensively from the day of installation as it provides powerful programming tools to accomplish any task. It is easy to learn and easy to use. And because PANVALET compresses card-image data on disk, it totally eliminates card storage of programs and the frustrating problems of physically handling card decks. Other programmer irritations such as duplicate updates, accidental deletions, unidentifiable compile listings, lost programs and partial updates are gone forever with PANVALET. With PANVALET, a programmer spends his time effectively, programming.

OPERATIONS personnel appreciate the time and resource savings realized with PANVALET. DASD space is typically reduced by 75% through advanced compression techniques. Run time is drastically cut helping to provide faster turnaround. File reorganization is never necessary with PANVALET. And PANVALET provides complete and current library backup at all times; in the process, the system also provides complete data set and library integrity verification and DASD I/O error analysis.

FOR MANAGERS, PANVALET means flexible security, control and a complete audit trail of all library activity. Positive PANVALET security means that management may assign up to three levels of access control on any library member, securing that member as tightly as required, independent from other members and as part of a security hierarchy. Positive security also means that a program in Production Status can never be altered, assuring source backup of load modules, elimination of accidental updates, and providing a reliable version-to-version audit trail. PANVALET provides comprehensive management reports on all library activity. Directory lists show every data set in the library, with status, level, dates of last modification and other control information. Other reports include the Library Status and Activity Report, the Include Cross Reference Report, deletion summaries, and more. With PANVALET, management has control over where everything is and what's happening to it.

SYSTEM SYNOPSIS

PANVALET operates on any IBM 360/370 series CPU under OS, DOS, VS or VM. TSO, CICS, and CMS subsystem interfaces eliminate any conversational/batch incompatibilities. The Panvalet Access Method allows user programs to easily access the PANVALET library on a read-only basis from OS, DOS & CICS

THE PANVALET PHILOSOPHY

PAN #1

Underlying the design of PANVALET is a philosophy that recognizes a logical distinction between programmer and library management functions. Six programs make up the PANVALET system and divide it into its functional components. The days of one-program library systems are gone forever, being replaced by the structured, modular, system concept.

THE PROGRAMMER'S PROGRAM

All adding, updating and editing of source is performed in PAN #1. This program includes printing, punching, sequence checking of data sets, temporary updates, renaming, copying and inserting comment records. Programmers may include portions of code from programs already written and tested through the PANVALET Include Facility. And there is much more.

PAN #2

THE MANAGEMENT PROGRAM

All basic library management functions are in PAN #2 including library backup, protection files, directory reports and historical files. The same advanced compression techniques on the disk library are applied to protection files and backup tapes. Through PAN #2, specific modules deleted from the PANVALET library that are needed again may be restored for use.

PAN #4

THE LIBRARY INITIALIZATION PROGRAM

PAN #4 will initialize a disk file to ready it for a PANVALET library.

PAN #6

THE ANALYSIS PROGRAM

PANVALET library composition and utilization can be analyzed by type, status and type, and user code. This is management information that can be used either as a control tool or as a planning aid for improved disk utilization.

PAN #7

THE CROSS REFERENCE PROGRAM

PAN #7 gives a complete cross reference of the PANVALET Include Facility, an especially helpful tool when making changes to common routines or data definitions included in many programs. This program eliminates the uncertainty about whether or not all associated modules were recompiled after a data definition change.

PAN #8

THE SCAN/REPLACE PROGRAM

A user may scan any data set, data type or the entire library for a specific character string and may replace that character string in the same pass of the library with PAN #8. PANVALET Scan/Replace allows the user to partition off the search fields by statement numbers and column numbers. Multiple fields may be replaced in just one pass of the library.

EFFICIENCY THROUGH SIMPLICITY

PANVALET works with English commands. It is efficient, easy to learn, easy to use, and dependable. Projects are completed in less time with less mistakes, saving time and making the entire shop more productive. The example below illustrates the typical life of a program in the PANVALET system.

* The program is added to PANVALET. Internal information, such as compression rate, is printed for programmer convenience.

* An update is made that adds and deletes a card. The deleted card is printed for the programmer's reference.

* A program listing is obtained by displaying the name, level and date of last maintenance. This information is included in the programmer's compile listing automatically by PANVALET.

* Once the program is ready for production, it is given a PROD status. Production programs can never be altered in PANVALET, thus insuring a reliable version-to-version audit trail of program progression.

* When maintenance to this program becomes necessary, a test copy of the production version is made and the program maintenance cycle begins again.

* Outdated or seldom-used programs may be flagged for deletion; management will periodically remove those data sets to a historical delete file.

* Error messages are prominently displayed at the problem point; detailed explanation of error messages are found in the PANVALET reference manual.

PROGRAMMING WITH PANVALET

++ADD

++UPDATE

++WRITE

++STATUS PROD

++COPY

++STATUS DISABLE

```

                                PANVALET
                                THE PROGRAM MANAGEMENT AND SECURITY SYSTEM

++ADD DATASET01.COBOL
   134 STATEMENT(S)      2 BLOCK(S)    24.85 AVERAGE BYTES
***** ABOVE ACTION SATISFACTORILY COMPLETED *****

++UPDATE DATASET02.1
++C 27
   02 FLD-A PIC X(3).
++C 33.33
00033   02 FILLER PIC X(4) VALUE SPACE.                      ***DELETED***
   134 STATEMENT(S)      2 BLOCK(S)    24.84 AVERAGE BYTES
***** ABOVE ACTION SATISFACTORILY COMPLETED *****

++WRITE PRINT.TESTDATA
*   DATA SET TESTDATA   AT LEVEL 001 AS OF 02/24/75
PANEXIT CSECT
*   THIS EXIT IS TO BE USED AS AN EXAMPLE OF THE VARIOUS TYPES OF
*   FUNCTIONS THE EXIT CAN PERFORM. IT ALSO SHOWS EXAMPLES OF :
*   1. LINKAGE
                                           00001
                                           00002
                                           00003
                                           00004

DS      CL1      NOT USED                                01034
DFORM   DS      CL1      N=NOFORMAT, T=TSO, ELSE BLANK    01035
DINC    DS      CL1      I=INCLUDE BEING EXPND (EXIT ONLY) 01036
DVERSION DS      XL2     VER. #(FOR PROTECTION FILES ONLY 01037
END                                           01038
***** ABOVE ACTION SATISFACTORILY COMPLETED *****

++STATUS DATASET01.PROD
***** ABOVE ACTION SATISFACTORILY COMPLETED *****

++COPY DATASET01.DATASET02
***** ABOVE ACTION SATISFACTORILY COMPLETED *****

++STATUS TESTDATA.DISABLE
***** ABOVE ACTION SATISFACTORILY COMPLETED *****

++WRITE PRINT.MAIN
***** NAME NOT FOUND *****
***** UNSATISFACTORY ACTION DUE TO ERROR *****

```

* ERROR MESSAGE = PV023 *



PANVALET MANAGEMENT REPORTING ...an audit trail

THE DIRECTORY LISTING

The PANVALET directory reports all vital library management information, sequentially listing data sets with their modification level, user codes, type and status, the last action taken and the dates of last maintenance and access. With the PANVALET directory, users have the ability to request their own directory selection criteria, i.e., listing programs by language type. For paper savings, users may abbreviate the standard directory listing in any of four ways.

YOUR COMPANY NAME				VER	03/16/75	PAGE	SERIAL						
YOUR LIBRARY NAME				8.0	17.26.33	1	005708						
NAME	LVL	USER	TYPE	STATUS	DATE MAINTNED	DATE ACCESSED	NO OF BLOCKS	NO OF STATEMENTS	LAST ACTION	AVG BYTES	PCT UTIL	NO OF SUBSETS	
ACYSOURCE	1		PL/1	TEST ACTV ENABL	02/18/75	03/16/75	11	1,129	ADDED	29	94.8		
CATALSAMD	2		OBJECT	TEST ACTV ENABL	11/27/74	03/16/75	8	395		61	95.6		
CATALSRTDX	5		JCL	TEST ACTV ENABL	10/23/74	03/16/75	1	146	UPDATED	14	66.4		
FGPANOB	1		ASSEMBLER	TEST ACTV ENABL	12/27/74	03/16/75	2	341		14	77.7		
SRAM3FLOW	11		ANSCOBOL	TEST ACTV ENABL		03/16/75	2	232	UPDATED	20	75.8		
BPAN13	17	77	ASSEMBLER	TEST ACTV ENABL	03/07/75	03/16/75	3	389		20	82.4		

NAME	LVL	USER	TYPE	STAT	ACCESSED	STATEMENTS	ACT	COMMENTS
ACYSOURCE	1		PL/1	TAE	03/16/75	1,129		* BROWN ACCOUNTING RUN NUMBER THREE
CATALSAMD	2		OBJECT	TAE	03/16/75	395		* THOMSON PAYROLL WEEKLY EARNINGS DRIVER MODULE
CATALSRTDX	5		JCL	TAE	03/16/75	146		* WILSON PAYROLL END OF YEAR SUMMARY
FGPANOB	1		ASMB	TAE	03/16/75	341		* SIMMONS INVENTORY MODELING ANALYSIS
SRAM3FLOW	11		ANSCB	TAE	03/16/75	232		* ANDERSON SYSTEM REPORT AND MAINTENANCE ANALYSIS
BPAN13	17	77	ASMB	TAE	03/16/75	389		* ROGERS ACCOUNTS RECEIVABLE LISTING SUMMARY

THE CROSS REFERENCE

The Include Cross Reference report gives a list of data sets that include other data sets and those that are included in other data sets, listing data set name, the statement number and where the include card is placed. This report is especially useful when many common routines or data definitions are used throughout a shop.

TABLE 4

CROSS-REFERENCE LIST - LIST OF DATA SETS WHICH INCLUDE OTHER DATA SETS

NAME OF DATA SET	STMT NO.	INCLUDES DATA SET	STMT NO.	INCLUDES DATA SET	STMT NO.	INCLUDES DATA SET
DANDEL	17	DAN01				
DANTS	17	DAN01				
DELDOS	5	PACOBJ1	12	DPACOBJ2	19	PACOBJ3
	26	PACOBJ4	33	PACOBJ5	40	DPACOBJ6
	47	PACOBJ7	54	DPACOBJ9	61	PACOBJ00
	68	PACOBJ04	75	PACOBJ08	82	80BJ08
	89	PACOBJ13	96	PACOBJ14	103	DPACOBJ15
	110	DPACOBJ16	117	PACOBJ20		
DEMOSV8	109	PRC30FD				
DEMOV8	50	PRC30FD				
DEMOV8P2	49	PRC30FD				
DISPALL	1	DISPALOC	2	DISPAN01	3	DISPAN02

STATUS AND ACTIVITY REPORT

This report is produced upon library creation and following every directory report. It provides library size and usage statistics to aid facilities planning and management.

PANVALET SYSTEMS REPORTING

PANVALET	BLKS /TRK	LIBRARY BLOCK SIZE	TOTAL BLOCKS	STATUS OVER HEAD	UNAVAIL BLOCKS	AND DATA BLOCKS	ACTIVITY DATA SETS	REPORT TOTAL STATEMENTS	NO. 334
ALLOCATED	5	2,498	4,750	42		4,708	1,640		
IN USE						4,370	1,064	262,274	85.6
AVAILABLE						338	576		

	SINCE LAST CREATION DIRECTORY	DATE OF LAST DUMP
OPENED	412	26
CLOSED	412	26

03/14/75

***** LAST ACTION CLEARED *****

THE ANALYSIS REPORT

Reports that provide an analysis of library composition by type, status and type, and by user code are used to assure maximum utilization and efficiency of the PANVALET library.

NAME-KEY SUMMARY	TABLE 1	ANALYSIS OF LIBRARY COMPOSITION BY TYPE OF DATA SET						
TYPE OF DATA SET	NO. OF STMTS	NO. OF BLOCKS	NO. OF DATA SETS	PCT. OF TOTAL BLOCKS	PCT. OF TOTAL DATA SETS	STMTS PER DATA SET	BLOCKS PER DATA SET	
ASSEMBLER	169,536	2,097	433	48.0	40.7	392	4.8	
COBOL/ANS	2,657	40	27	.9	2.5	98	1.5	
FORTRAN	36	2	2	.0	.2	18	1.0	
PL/I	1,429	19	4	.4	.4	357	4.8	
RPG	5	1	1	.0	.1	5	1.0	
OBJECT	38,550	1,201	398	27.5	37.4	97	3.0	
JCL	9,845	197	115	4.5	10.8	86	1.7	
DATA	21,730	429	64	9.8	6.0	340	6.7	
OTHER	845	13	1	.3	.1	845	13.0	
UNSPECIFIED	17,641	371	19	8.5	1.8	928	19.5	
TOTAL	262,274	4,370	1,064	100.0	100.0	246	4.1	

SCAN/REPLACE REPORTS

Any single data set, group of data sets or the entire library may be scanned for a particular character string. Multiple fields can be scanned and replaced in one pass. Scan/Replace is the perfect tool for system conversions.

++SCAN SRAM3FLOW

++REP /1403-S-PRINTER/1403-S-SYSPRINT/
++REP /RD-MAST/MASTER-FILE/
SRAM3FLOW

LVO11

SELECT PRINTER ASSIGN TO UR-1403-S-PRINTER.
SELECT PRINTER ASSIGN TO UR-1403-S-SYSPRINT.
PERFORM RD-MAST THRU XT-RD-MAST.
PERFORM MASTER-FILE THRU XT-MASTER-FILE.

RD-MAST.

MASTER-FILE.

XT-RD-MAST. EXIT.

XT-MASTER-FILE. EXIT.

PERFORM RD-MAST THRU XT-RD-MAST.

PERFORM MASTER-FILE THRU XT-MASTER-FILE.

***** ABOVE ACTION SATISFACTORILY COMPLETED *****

00070	OLD STATEMENT
00070	NEW STATEMENT
00169	OLD STATEMENT
00169	NEW STATEMENT
00173	OLD STATEMENT
00173	NEW STATEMENT
00177	OLD STATEMENT
00177	NEW STATEMENT
00222	OLD STATEMENT
00222	NEW STATEMENT

BACKUP, SECURITY AND CONTROL

SECURITY ACCESS CONTROL

Three different levels of access controls may be given to any data set. Utilizing access codes from various sources, alone or in combination with each other, a user may form a complete security hierarchy. Thus, with multi-level access control, PANVALET provides foolproof security with management flexibility.

LIBRARY BACKUP

PANVALET provides complete and current library backup at all times. Backup is fast and offers an unexpected high degree of data protection. If, for example, an integrity or hardware error is found, appropriate messages are printed and the backup process continues to completion. In many cases, only one module will need to be restored in an error condition where other library systems would necessitate a complete library recreation. All DASD hardware errors are identified and reported by PANVALET with usually no hardware interruption, allowing library use as if there were no error.

PRODUCTION DATA SETS

Programs may be protected from further modification by placing them into the Production Status; with PANVALET, production programs may never be changed back to test status and thus, cannot be changed. To update a production program, the user creates a test copy of that program with a new name or version identifier. This assures a version-to-version audit trail of program activity and insures the integrity of the original member.

DISABLED AND INACTIVE DATA SETS

PANVALET eliminates premature or accidental program deletion. The programmer flags data sets to be deleted through the PAN #1 program. Periodically, management deletes those data sets from the PANVALET library by spooling them to a tape. The tape may then be referenced for short term retention or match/merged for long term retention. Programs with the same name can be stored in this fashion with PANVALET automatically keeping track of each one by version numbers. Deletion of data sets in this way creates a dependable backup in case of a misdeleted program.

Programs that are seldom used, such as year-end routines, should not waste space on a disk library, yet they should be readily available for use. With PANVALET, such data sets are spooled to a tape protection file until needed. When needed, one command will retrieve them back to the disk PANVALET library for processing. Management receives a report of all data sets deleted, an effective control point for reviewing program deletions . . . a simple, safe procedure for both programmers and management.

COMMAND SUPPRESSION

Management has the capability of suppressing commands in PANVALET. This assures that management will retain control of library contents and maintenance functions. A command parameter may be suppressed without suppressing the command itself, which lends flexibility to this PANVALET feature.

PANVALET offers additional tools as optional features that the user may incorporate into his PANVALET system at any time. Some of these are:

LOAD MODULE AUDITOR

To identify the source of any load module or phase for reference in a core dump, PANVALET will automatically insert into an object module the name, modification level and date of last maintenance of the PANVALET data set. Never again will there be a load module in need of emergency maintenance with the user not knowing which source version it represents.

BACKUP/HISTORY OPTION

This feature provides PANVALET with a real time backup facility. All updates will go to a transaction file which can be used to provide a 100% backup capability in case of library failure. The transaction file may also be used to provide an audit trail of all changes to the PANVALET library.

PRINT DATA SET FEATURE

Print files may be stored on PANVALET with all the advantages that apply to card-image data. PANVALET print files may be stored, updated and retrieved.

JCL GENERATOR

DOS PANVALET offers an ability to generate canned JCL to compile, compile and link, and compile, link and catalog into the core image library, which eliminates the need for programmers to master job control before they become productive.

MULTIPLE WORK FILE OPTION

OS PANVALET will accept multiple work files with the user switching back and forth. In this way, the user can build multiple sequential files from PANVALET all at the same time.

PANVALET EXTENDED FEATURES

PANVALET EXCLUSIVES

PANVALET is the most advanced program management and security system in the world today because it is the only one that combines the elements Ease of Use, Security, Management Controls and Efficiency into one total system. The list that follows enumerates just a few of the ways in which PANVALET has no equal.

- Total protection for production programs
- Foolproof data security
- The same security safeguards for TSO
- Columnar update
- Device and version independence
- DASD error detection and correction
- English language commands
- Multi-volume library security
- Supports up to six levels of nested INCLUDES
- Extensive INCLUDE reporting
- Automatic multiple partition protection
- Automatic shared DASD protection for OS and DOS
- Conditional command execution
- Compiler comment records
- Selective restore capability
- Modification level numbers
- Complete cross reference of all INCLUDES
- Analysis reports
- Standard label tape and disk utilization
- Scan/Replace function in one pass of the library
- SUPPRESS controls over specific commands

"We have all of our source programs, some 1200 of them, on PANVALET. A separate PANVALET is used for our procedures and standards library. The backup feature is essential for the insurance group here."

"Utilizing PANVALET and EASYTRIEVE, we converted over 1,000 programs from COBOL-D to ANS-COBOL in a completely hands-off manner in just six weeks. Now we're converting again. This time to 3340s, again using the same systems. With EASYTRIEVE, de-blocking files is simple. We're always at our limit on the core-image library; without EASYTRIEVE, we'd be over."

"We're sticklers for knowing exactly what we've got on our program library, and knowing we're working with the most current version. PANVALET makes sure that we do both. As a matter of fact, we don't allow any production program that is not PANVALET . . . of course, all of our 30 programmers use the system. We have recommended PANVALET to many other companies."

"OUR RESPONSIBILITY BEGINS WHEN YOU BUY OUR PRODUCTS"

"We use PANVALET backup security for source programs, to maintain and modify programs, as a security file for JCL, and as a data file for source data by batch coming out of keypunch under the superset/subset mode. PANVALET is used by some 75 people here."

"Our shop has two separate libraries on PANVALET. Both fill a 3330 disk pack. We use the system mainly for storing source programs and have over three million cards compressed on the two libraries. The PANVALET TSO system is just beautiful. Program retrieval, update and storage are done simply and quickly. We're delighted with the systems; every one of the 70 systems people here use PANVALET and TSO, which means about 300 times per day per library."

"PANVALET and EASYTRIEVE are the best pieces of software we've bought since I can remember. Our auditors rest easy at night knowing PANVALET security and backup are keeping programs safe. They have learned to access their own reports off those files with EASYTRIEVE. As a matter of fact, both these systems are so easy to learn and use that everyone here uses them . . . and that's the true test of a software package's worth."



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PAN*DA

THE DISK ANALYSIS AND DATA SET MANAGEMENT SYSTEM

- Insures continuous control of DASD resources
 - Creates reports by volume or user-group
 - Summarizes reports; optional track map readout
 - Analyzes PDS & index-sequential files
 - Shows unused space on each volume
 - Pinpoints over-allocated or obsolete data sets



PANVALET

THE PROGRAM MANAGEMENT AND SECURITY SYSTEM

- Generates complete program back-up
- Protects production programs
- Eliminates cards
- Produces complete documentation
- Monitors library via management reports
- Eliminates wasted CPU time

EASYTRIEVE

THE INFORMATION RETRIEVAL AND FILE MANAGEMENT SYSTEM

- Eliminates coding forms
- Eliminates compile and test time
- Requires no special language (written in English)
- Automatically prints orderly reports
- Saves time with multiple tasks running simultaneously
- Runs at I/O speeds
- Learn Easytrieve in the morning... Use it that afternoon



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